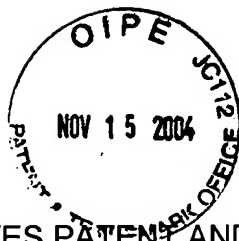


Application No. 10/675,538
Attorney Docket No. 4491-044152



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 10/675,538 Confirmation No. 6086
Applicant : Curtiss A. Grau et al.
Filed : September 30, 2003
Title : HIGH CAPACITY SHEAR MECHANISM
Group Art Unit : 3617
Examiner : Mark T. Le
Customer No. : 28289

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

POWER OF ATTORNEY BY ASSIGNEE
OF ENTIRE INTEREST (REVOCATION OF PRIOR POWERS)

Sir:

As assignee of record of the entire interest of the above-identified patent application, all powers of attorney previously given are hereby revoked and I hereby appoint the practitioners associated with **Customer Number 28289** to transact all business in the United States Patent and Trademark Office connected therewith.

Customer Number 28289 is the Customer Number for the law firm of Webb Ziesenheim Logsdon Orkin and Hanson, P.C. whose address is 700 Koppers Building, 436 Seventh Avenue, Pittsburgh, Pennsylvania 15219-1818, Telephone No. 412-471-8815.

**All correspondence and telephone calls should be addressed to
Customer Number 28289.**

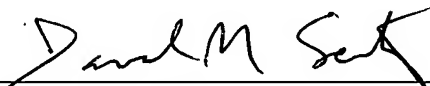
Ownership is established by an Assignment from the inventors of the above-identified patent application to Westinghouse Air Brake Technologies Corporation, which was recorded in the United States Patent and Trademark Office on February 27, 2004, at Reel 015050/Frame 0830.

Attached to this Power is a Certificate Under 37 C.F.R. 3.73(b).

I, David M. Seitz, whose signature appears below, aver that as Assistant Secretary of Westinghouse Air Brake Technologies Corporation, I am empowered to sign this statement on behalf of the Assignee.

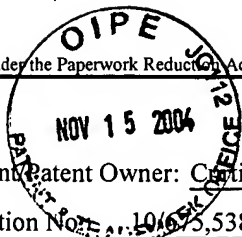
WESTINGHOUSE AIR BRAKE TECHNOLOGIES
CORPORATION

By: _____


David M. Seitz
Assistant Secretary

Date: October 15, 2004

Assignee of Entire Interest

**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Christiss A. Grau et al.Application No. 10/675,538Filed: September 30, 2003Entitled: High Capacity Shear MechanismWestinghouse Air Brake Technologies Corporation, a Delaware corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title, and interest.
The extent (by percentage) of its ownership interest is _____ %

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 015050, Frame 0830, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.☒ Copies of assignments or other documents in the chain of title are attached.*[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]*

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

10/15/04

Date

David M. Seitz

Typed or printed name

Telephone number

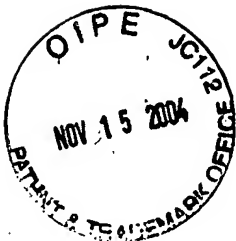
Signature

Assistant Secretary

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

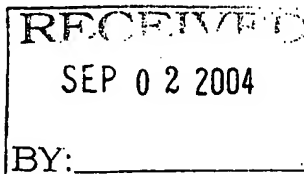
AUGUST 30, 2004

PTAS



102692543A

JAMES RAY & ASSOCIATES
JAMES O. RAY, JR.
2640 PITCAIRN ROAD
MONROEVILLE, PA 15146



UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/27/2004

REEL/FRAME: 015050/0830

NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

GRAU, CURTISS A.

DOC DATE: 02/12/2004

ASSIGNOR:

SOMMERFELD, HOWARD

DOC DATE: 02/20/2004

ASSIGNEE:

WESTINGHOUSE AIR BRAKE
TECHNOLOGIES CORPORATION
1001 AIR BRAKE AVENUE
WILMERDING, PENNSYLVANIA 15148

SERIAL NUMBER: 10675538

FILING DATE: 09/30/2003

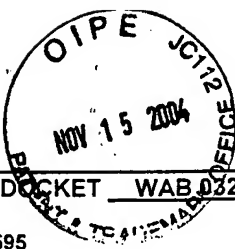
PATENT NUMBER:

ISSUE DATE:

TITLE: HIGH CAPACITY SHEAR MECHANISM

015050/0830 PAGE 2

MARY BENTON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



03-12-2004

ATTORNEY DOCKET WAB 03222-A

FORM PTO-1595
(Rev. 6-93)

OMB No. 0651-0011 (exp. 4/94)

RECO.



102692543
PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): 2.27.04

CURTISS A. GRAU
HOWARD SOMMERFELD

Additional name(s) & address(es) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies)

Name: WESTINGHOUSE AIR BRAKE
TECHNOLOGIES CORPORATION

Internal Address:

Street Address: 1001 AIR BRAKE AVENUE

City: WILMERDING State: PA ZIP: 15148

Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

Execution Date: February 12 and 20, 2004

4. Application number(s) or patent number(s) 10/675,538

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s):

B. Patent No.(s):

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed.

Name of Agent: James O. Ray, Jr.

Name: JAMES RAY & ASSOCIATES

Internal Address:

Street Address: 2640 PITCAIRN ROAD

City: MONROEVILLE State: PA ZIP: 15146

03/11/2004 JJALLAH2 00000016 10675538

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00

☒ Enclosed

☐ Authorized to be charged to deposit account

8. Deposit account number:

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Robert D. Lott

NAME OF PERSON SIGNING

Robert D. Lott
SIGNATURE

February 24, 2004

DATE

Total number of pages including cover sheet, attachments, and document: 2

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) CURTISS A. GRAU AND HOWARD R. SOMMERFELD (hereinafter ASSIGNORS) by

WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION

(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled:

HIGH CAPACITY SHEAR MECHANISM (TYPE HC)

for which application for Letters Patent of the United States was executed on even date herewith, and all Letters Patent of the United States and corresponding Foreign patents to be obtained therefor on said application or any continuation, division, renewal, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.

THE ASSIGNORS agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

THE ASSIGNORS agree(s) to execute all papers necessary in connection with any interference or litigation which may be declared concerning this application or any continuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued thereof and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference or litigation.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).



CURTISS A. GRAU

DATE 2/12/04



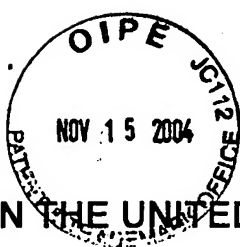
HOWARD R. SOMMERFELD

DATE 2/20/04

I HEREBY CERTIFY THAT THIS CORRESPONDENCE
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ALEXANDRIA, VA 22313**

ON February 24, 2004
Janet Lucas



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:)	Group Art Unit: TBA
)	
CURTISS A. GRAU, et al.)	Examiner: TBA
)	
Serial No.: 10/675,538)	Attorney Docket: WAB 03222-A
)	
Filed: September 30, 2003)	Date: February 24, 2004

For: HIGH CAPACITY SHEAR MECHANISM (TYPE HC)

MAIL STOP BOX ASSIGNMENT
COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA, VA 22313

TRANSMITTAL OF ASSIGNMENT DOCUMENT

Dear Sir:

Enclosed, herewith, is an Assignment cover sheet and an executed Assignment form for the above-referenced patent application.

Also, enclosed is a Credit Card Payment Form (PTO-2038) authorizing the amount of forty Dollars (\$40.00) to cover the filing of the Assignment document.

Respectfully submitted,

By


Robert D. Lott

Attorney for Applicant(s)

Registration No. 28,441

JAMES RAY & ASSOCIATES
2640 PITCAIRN ROAD
MONROEVILLE, PA 15146

TELEPHONE: 412-380-0725
FACSIMILE: 412-380-0748